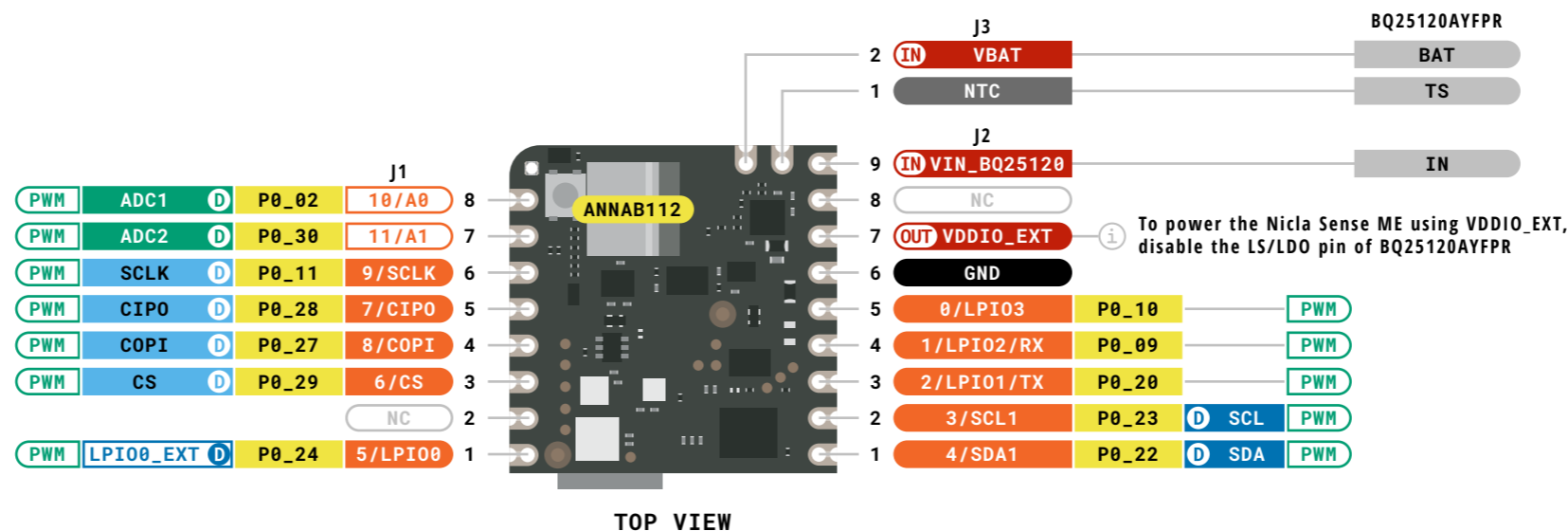


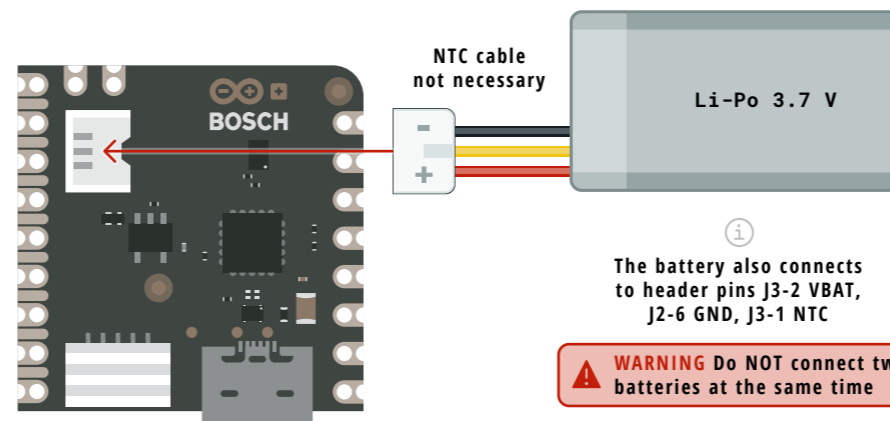
TOP VIEW

The battery also connects with the Battery Connector on the bottom of the board

**WARNING** Do NOT connect two batteries at the same time



TOP VIEW



BOTTOM VIEW

**WARNING** Do NOT connect two batteries at the same time

Legend:

- Power
- Ground

- IN Power Input
- OUT Power Output

- GPIO Digital External
- Analog External
- Main Part
- Secondary Part
- Internal Component
- Other Pins (Reset, System Control, Debugging)

- I2C
- SPI
- UART/USART
- Other SERIAL Communication
- Analog
- PWM/Timer
- Default
- Default
- Default
- Default

- LED
- RGB LED
- Other

**MAXIMUM** LPI0s are driven by bidirectional translators powered by VDDIO\_EXT. These translators are meant for low power and can only drive very limited current. Please check translator datasheet for details. VDDIO\_EXT is software programmable between 1.8 and 3.3V

CIPO/COPI have previously been referred to as MISO/MOSI

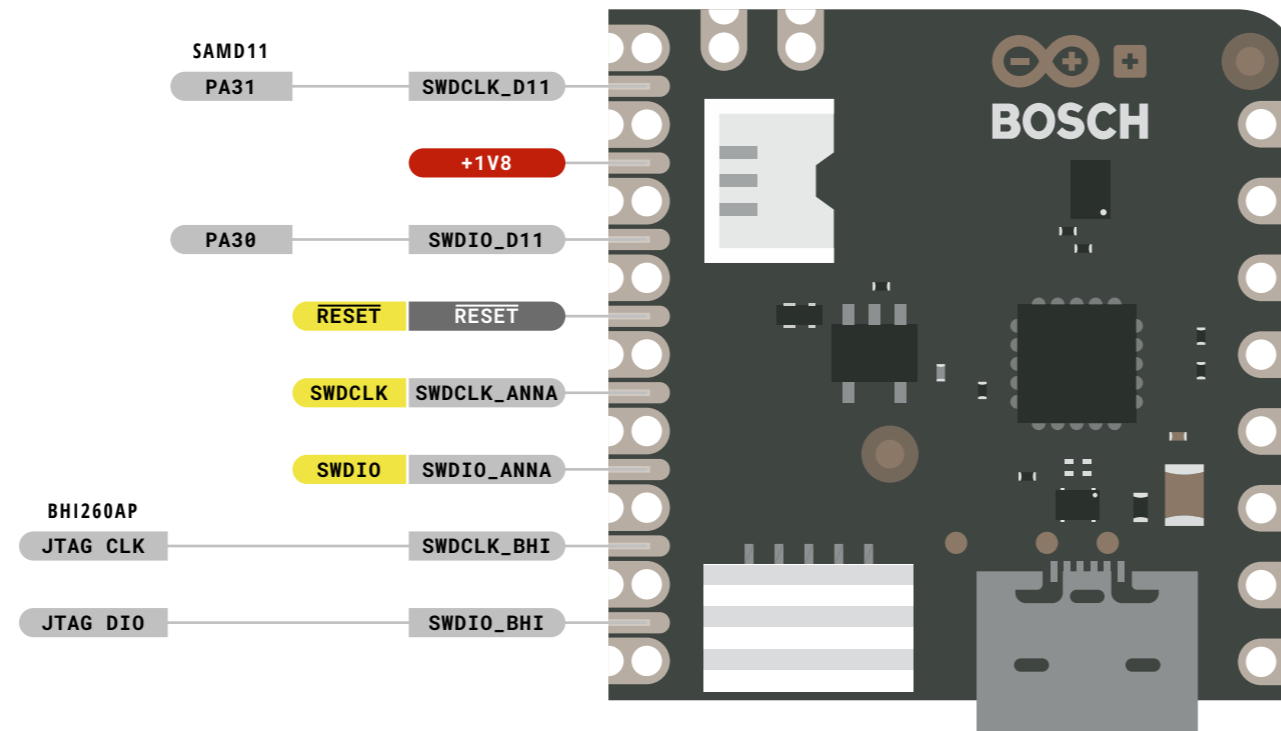


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## BOTTOM VIEW



### Legend:

■ Power

Power Input

■ GPIO Digital External

LED

Power Output

□ Analog External

RGB LED

■ Ground

■ Main Part

□ Other

■ Secondary Part

■ Internal Component

■ Other Pins (Reset, System Control, Debugging)

**MAXIMUM** LPIOs are driven by bidirectional translators powered by VDDIO\_EXT. These translators are meant for low power and can only drive very limited current. Please check translator datasheet for details.  
VDDIO\_EXT is software programmable between 1.8 and 3.3V

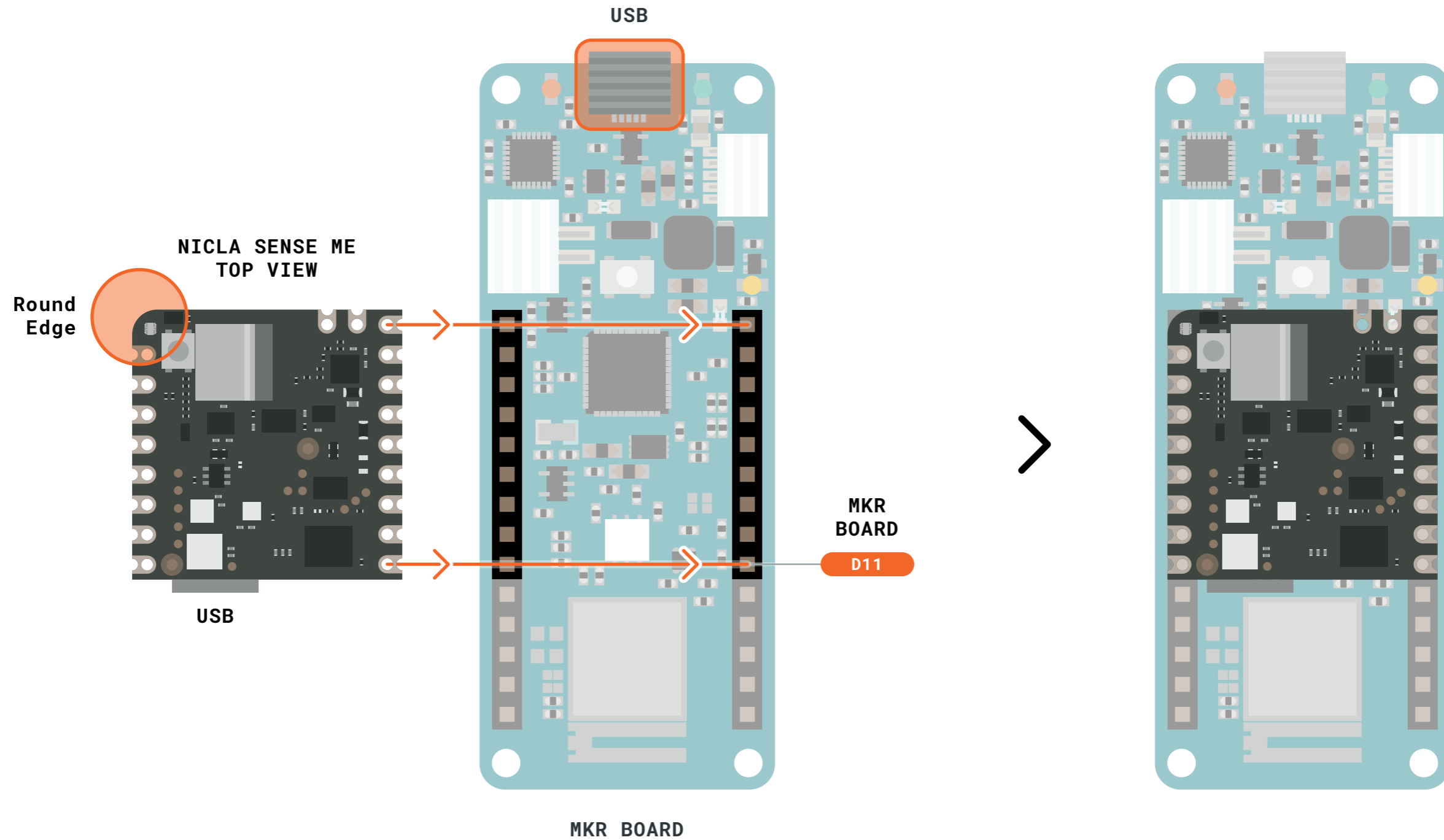
CIP0/COPI have previously been referred to as MISO/MOSI

**NICLA SENSE ME**  
**ARDUINO**

SKU code: ABX00050  
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# Compatible with MKR Boards



## Legend:

- Power
- GPIO Digital External
- Analog External
- Main Part
- Secondary Part
- Internal Component
- Other Pins (Reset, System Control, Debugging)
- IN Power Input
- OUT Power Output
- 
- 
- 
- 
- 
- Ⓜ LED
- Ⓜ RGB LED
- Other

**⚠** **MAXIMUM** LPIOs are driven by bidirectional translators powered by VDDIO\_EXT. These translators are meant for low power and can only drive very limited current. Please check translator datasheet for details.  
VDDIO\_EXT is software programmable between 1.8 and 3.3V

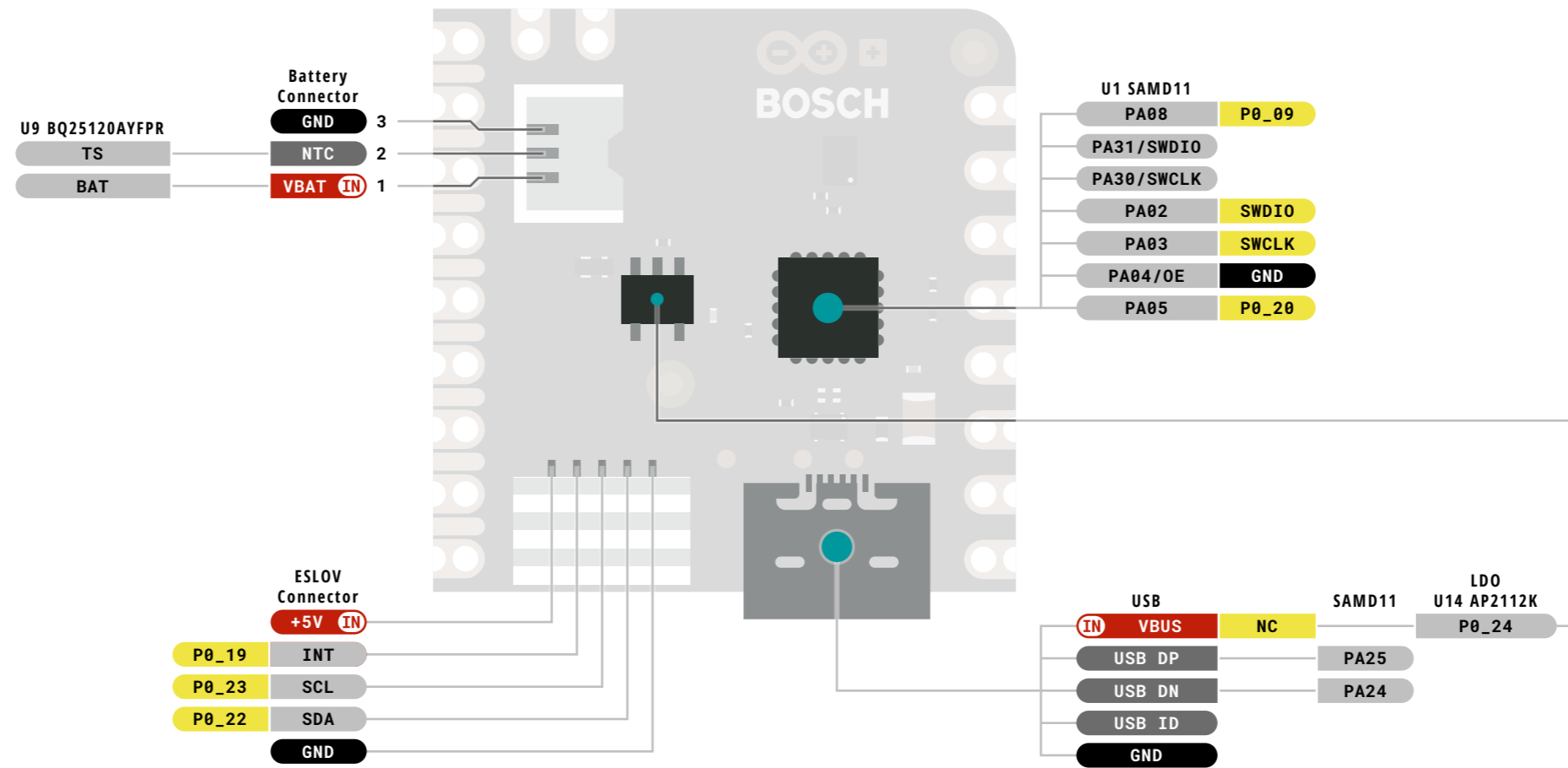
**i** CIP0/COPI have previously been referred to as MISO/MOSI



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### BOTTOM VIEW



**Legend:**

- Power
- **IN** Power Input
- **OUT** Power Output
- Ground
- GPIO Digital External
- Analog External
- Main Part
- Secondary Part
- Internal Component
- Other Pins (Reset, System Control, Debugging)
- Ⓜ LED
- Ⓜ RGB LED
- Other

**⚠** **MAXIMUM** LPIOs are driven by bidirectional translators powered by VDDIO\_EXT. These translators are meant for low power and can only drive very limited current. Please check translator datasheet for details.  
 VDDIO\_EXT is software programmable between 1.8 and 3.3V

**i** CIP0/COPI have previously been referred to as MISO/MOSI



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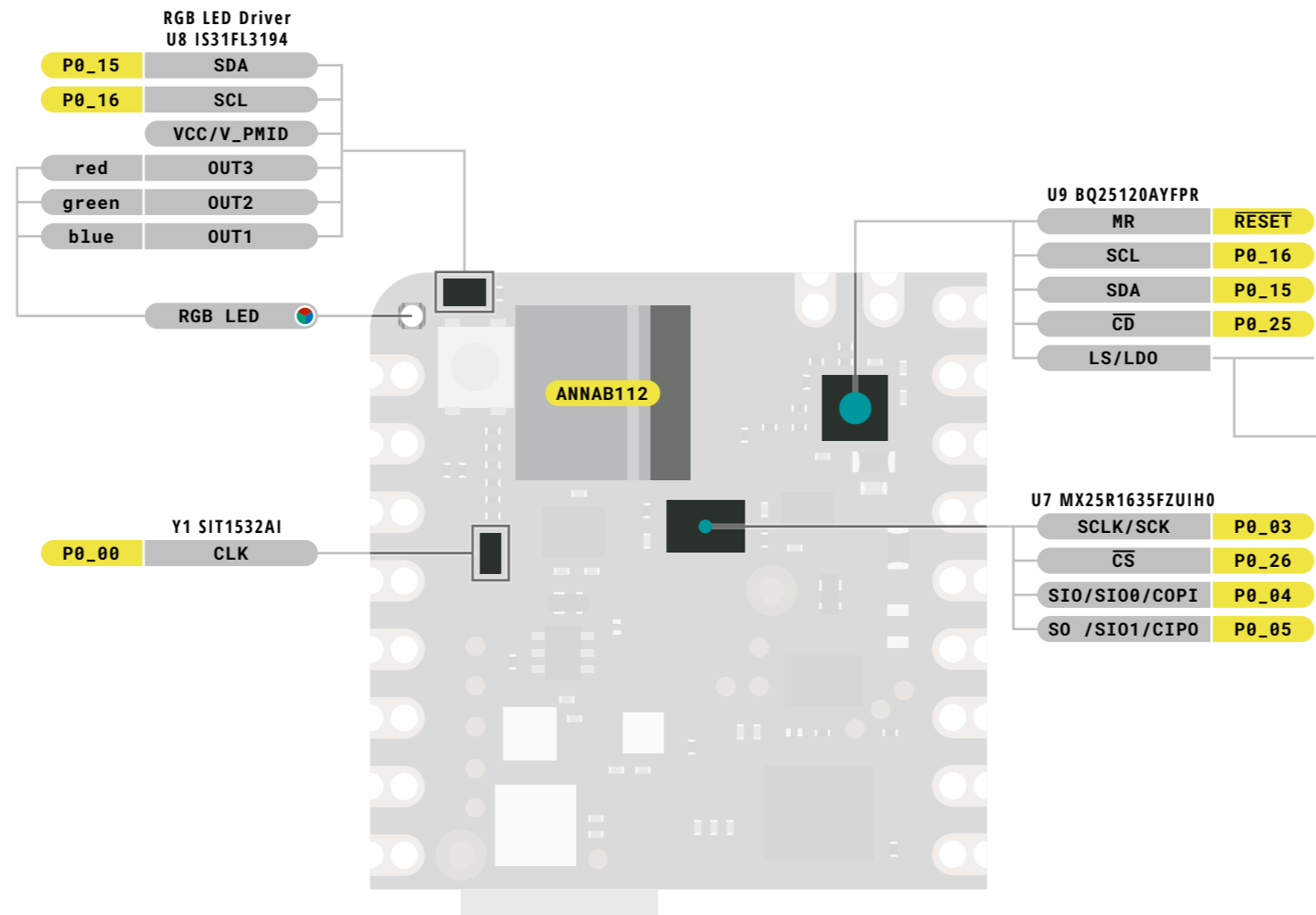
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WARNING!

## Advanced Section

The following information is for advanced use only and may not be officially supported by Arduino software





TOP VIEW

Disabling the LS/LDO pin it is possible to power the Nicla Sense ME using VDDIO\_EXT pin on the header

If LS/LDO pin is enabled, it is possible to configure the Nicla Sense ME to work at +3V3 or +1V8, depending on the configuration of the maximum input voltage

Legend:

- Power
- IN Power Input
- OUT Power Output
- Ground
- GPIO Digital External
- Analog External
- Main Part
- Secondary Part
- Internal Component
- Other Pins (Reset, System Control, Debugging)
- LED
- RGB LED
- Other

**⚠** **MAXIMUM** LPIOs are driven by bidirectional translators powered by VDDIO\_EXT. These translators are meant for low power and can only drive very limited current. Please check translator datasheet for details.  
VDDIO\_EXT is software programmable between 1.8 and 3.3V

**i** CIP0/COPI have previously been referred to as MISO/MOSI

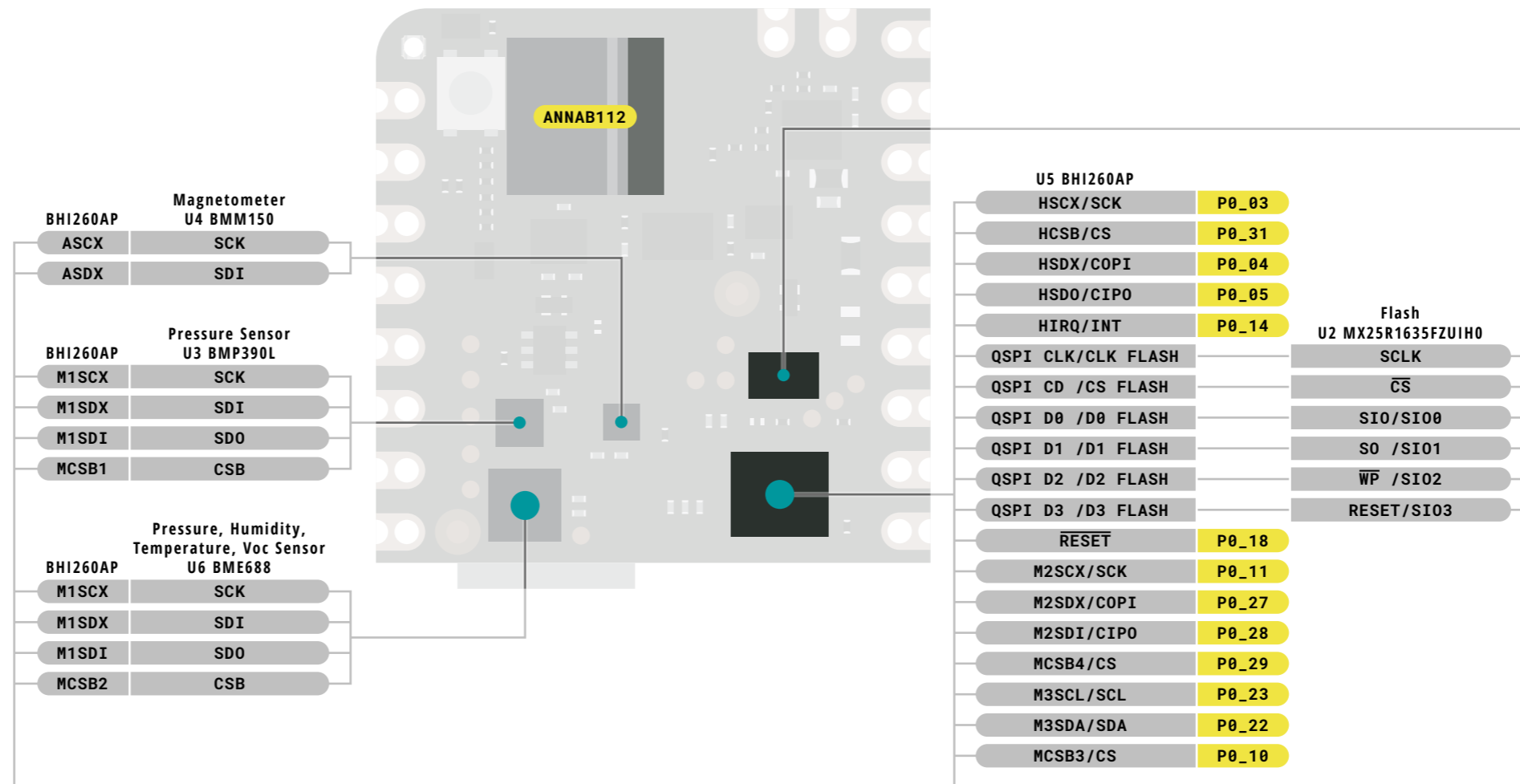


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### TOP VIEW




**Legend:**

- Power
- GPIO Digital External
- LED
- Power Input
- Analog External
- RGB LED
- Power Output
- Main Part
- Other
- Ground
- Secondary Part
- Internal Component
- Other Pins (Reset, System Control, Debugging)

**⚠** **MAXIMUM** LPIOs are driven by bidirectional translators powered by VDDIO\_EXT. These translators are meant for low power and can only drive very limited current. Please check translator datasheet for details.  
 VDDIO\_EXT is software programmable between 1.8 and 3.3V

**i** CIP0/COPI have previously been referred to as MISO/MOSI




**NICLA SENSE ME**

**ARDUINO**

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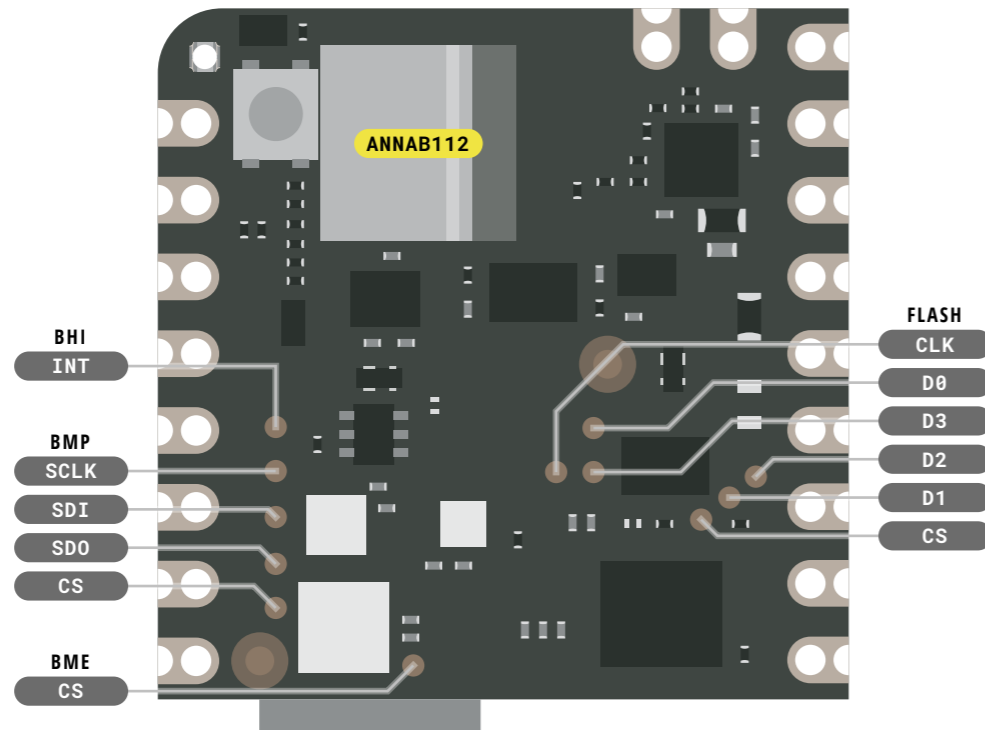
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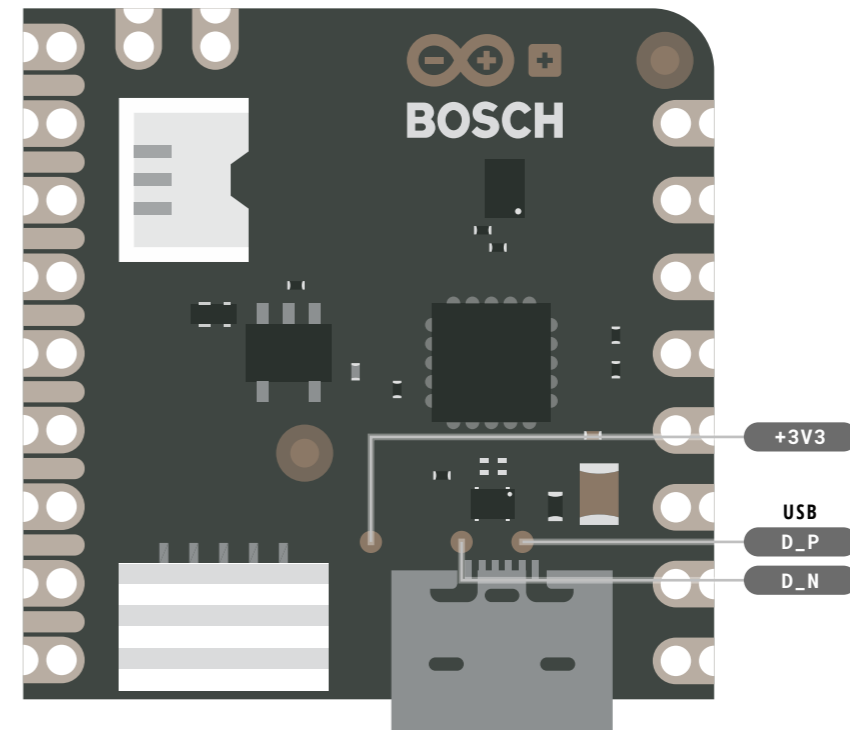
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# Test Points

TOP VIEW



BOTTOM VIEW



**Legend:**

- Power
- **IN** Power Input
- **OUT** Power Output
- Ground
- GPIO Digital External
- Analog External
- Main Part
- Secondary Part
- Internal Component
- Other Pins (Reset, System Control, Debugging)
- LED
- RGB LED
- Other

**⚠** **MAXIMUM** LPIOs are driven by bidirectional translators powered by VDDIO\_EXT. These translators are meant for low power and can only drive very limited current. Please check translator datasheet for details.  
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